

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631749

Luminaire Tested: GWS-SA2B-735-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-735-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3582 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

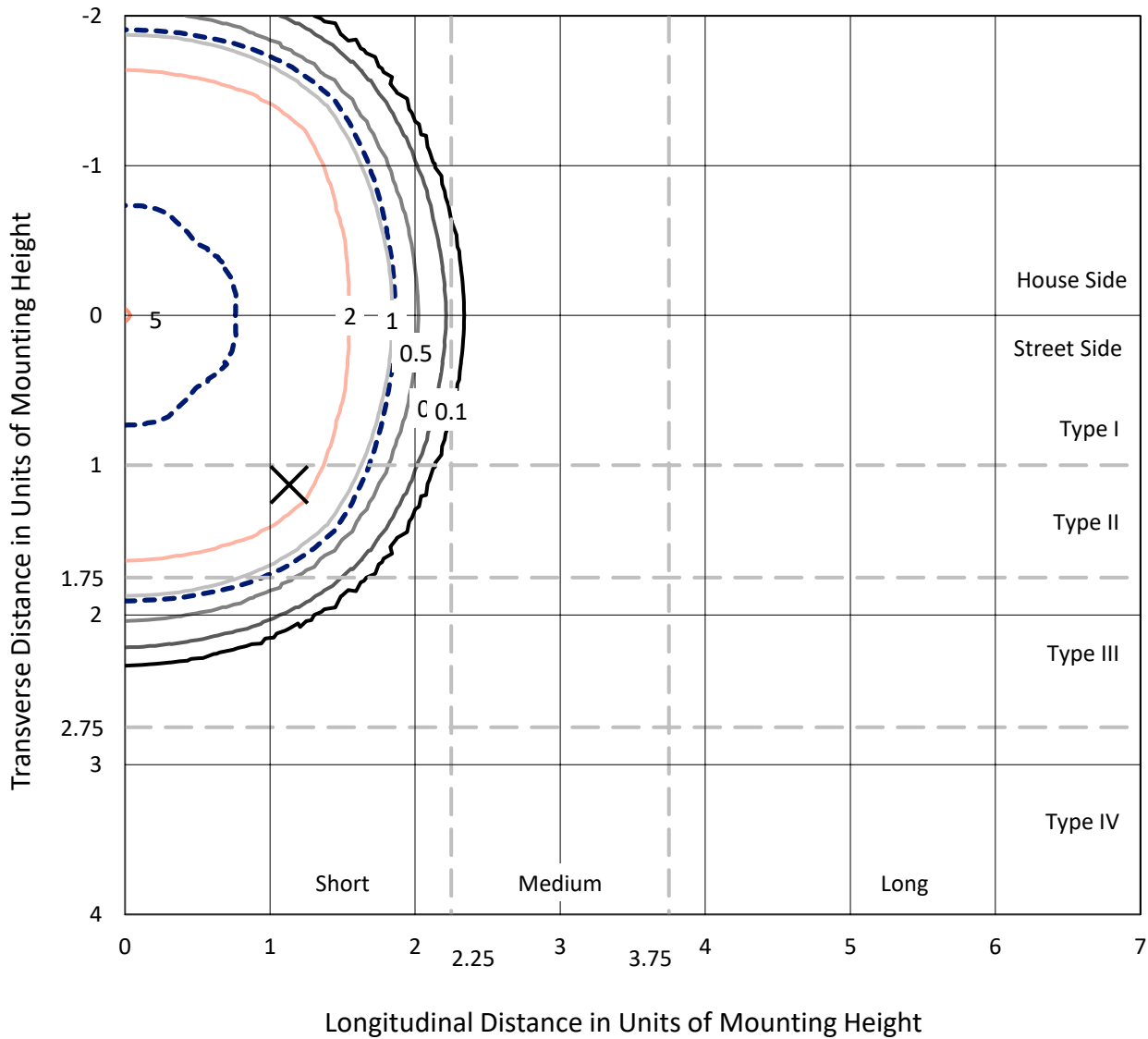


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Iso-Footcandle Lines of Horizontal Illumination

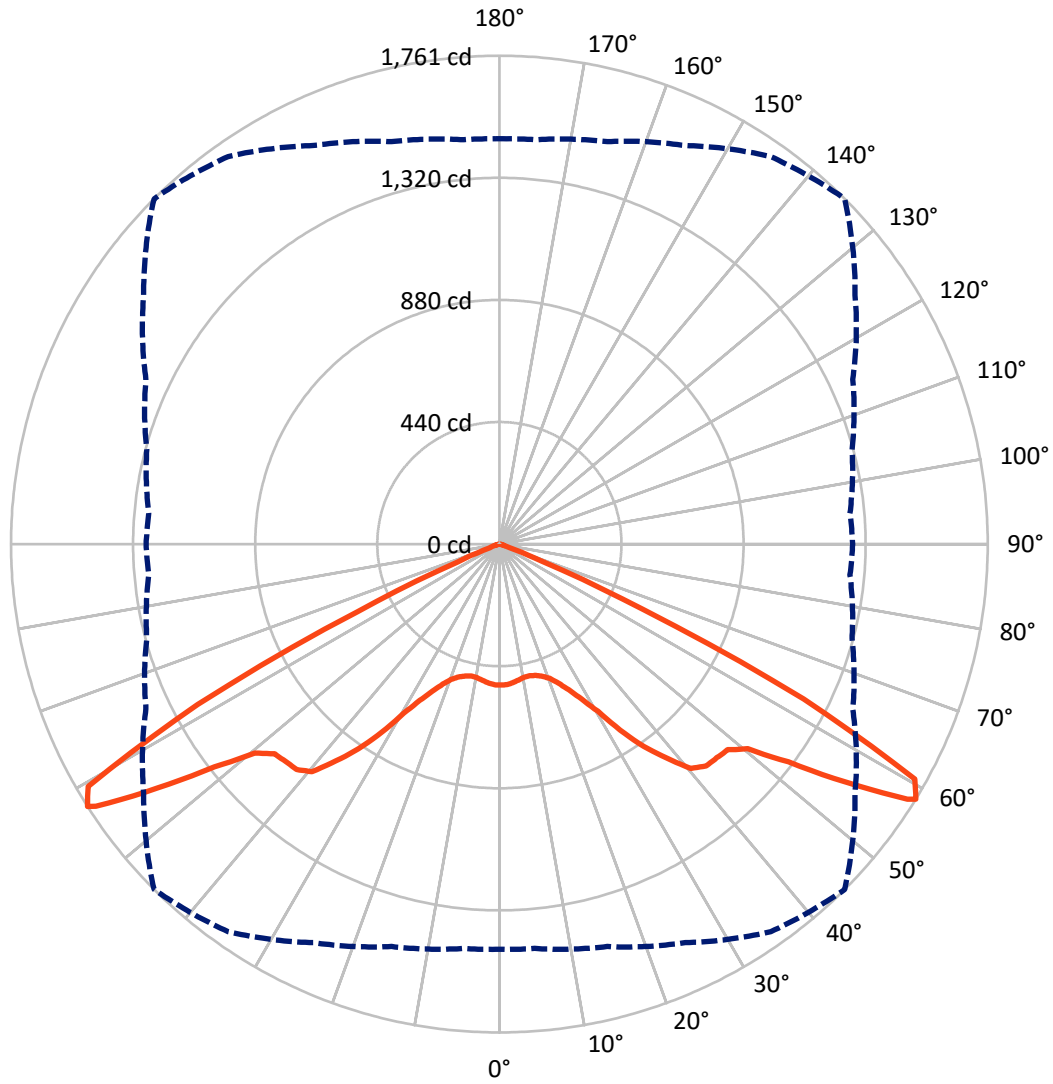
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1791.0 | 0.0 | 1791.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1791.0 | 0.0 | 1791.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3582.0 | 0.0 | 3582.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.4 | 1.3 |
| 10°-20° | 140.2 | 3.9 |
| 20°-30° | 265.2 | 7.4 |
| 30°-40° | 523.1 | 14.6 |
| 40°-50° | 827.8 | 23.1 |
| 50°-60° | 1216.8 | 34.0 |
| 60°-70° | 543.1 | 15.2 |
| 70°-80° | 18.2 | 0.5 |
| 80°-90° | 0.2 | 0.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 3582.0 | 100.0 |
| 0°-180° | 3582.0 | 100.0 |

Coefficient of Utilization



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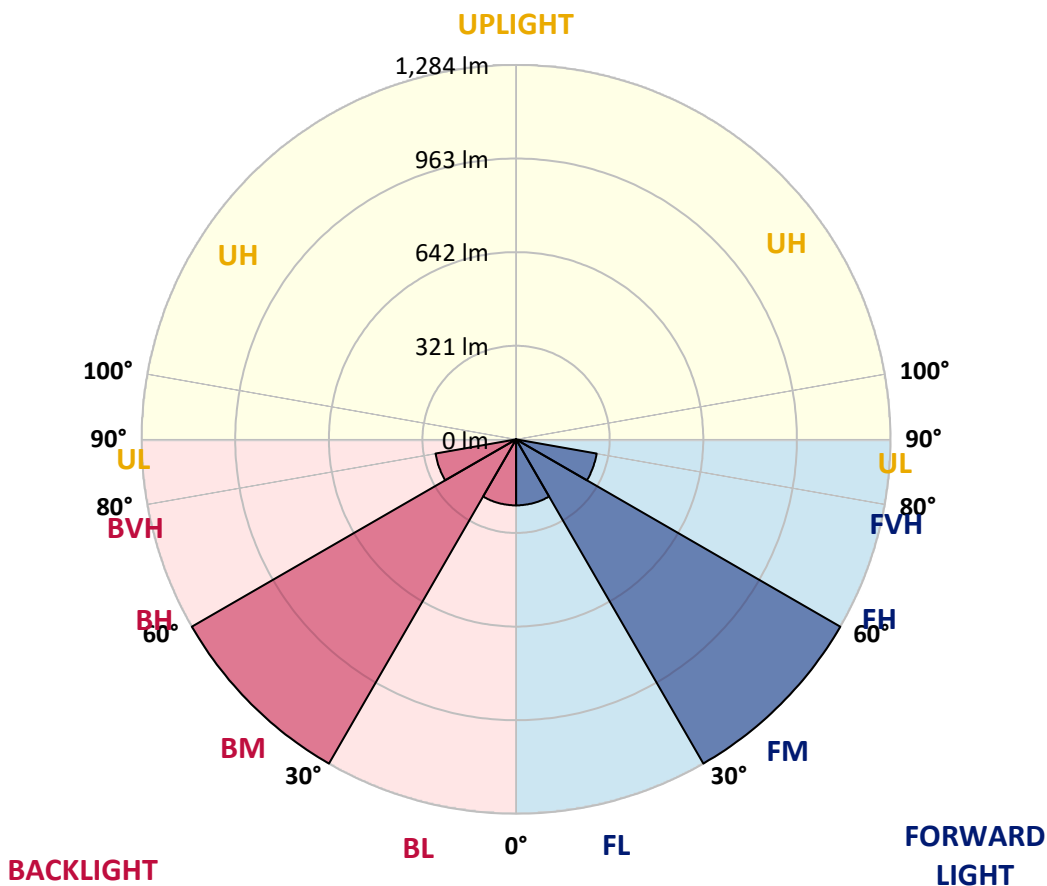
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 226.4 | 6.3 | | | |
| FM (30°-60°) | 1283.8 | 35.8 | | | |
| FH (60°-80°) | 280.7 | 7.8 | | | G0/660 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 226.4 | 6.3 | B1/500 | | |
| BM (30°-60°) | 1283.8 | 35.8 | B2/2500 | | |
| BH (60°-80°) | 280.7 | 7.8 | B1/500 | | G0/660 |
| BVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 | 508.0 |
| 2.5° | 503.1 | 504.1 | 505.0 | 505.5 | 506.0 | 507.5 | 508.0 | 506.5 | 506.5 | 503.6 | 507.0 |
| 5° | 500.7 | 501.6 | 502.6 | 502.1 | 502.1 | 502.1 | 501.6 | 499.7 | 499.2 | 496.3 | 499.7 |
| 7.5° | 496.3 | 497.2 | 497.2 | 495.8 | 494.8 | 494.8 | 494.3 | 491.9 | 491.4 | 488.5 | 491.9 |
| 10° | 492.8 | 493.3 | 492.8 | 489.9 | 488.0 | 488.0 | 487.5 | 486.5 | 487.0 | 485.0 | 488.0 |
| 12.5° | 494.8 | 495.3 | 493.3 | 489.4 | 487.0 | 486.5 | 485.0 | 483.6 | 485.0 | 484.6 | 487.5 |
| 15° | 501.1 | 501.6 | 498.2 | 493.3 | 491.4 | 491.4 | 487.5 | 483.6 | 485.5 | 486.0 | 489.4 |
| 17.5° | 509.0 | 509.0 | 504.6 | 500.2 | 500.7 | 500.7 | 494.3 | 487.5 | 488.0 | 489.9 | 493.3 |
| 20° | 518.2 | 518.2 | 513.8 | 512.9 | 516.3 | 516.8 | 509.0 | 498.2 | 495.8 | 497.2 | 501.1 |
| 22.5° | 534.8 | 534.8 | 531.4 | 533.8 | 541.6 | 544.1 | 532.4 | 517.2 | 511.4 | 512.4 | 516.3 |
| 25° | 560.7 | 560.7 | 559.7 | 565.6 | 576.8 | 582.1 | 566.5 | 546.5 | 536.8 | 535.3 | 539.7 |
| 27.5° | 604.1 | 604.6 | 603.1 | 611.9 | 626.1 | 632.4 | 610.9 | 584.6 | 572.9 | 570.4 | 574.8 |
| 30° | 660.2 | 660.2 | 660.7 | 672.9 | 691.5 | 699.7 | 671.4 | 640.7 | 627.0 | 619.2 | 625.1 |
| 32.5° | 722.7 | 723.7 | 728.5 | 749.0 | 781.7 | 798.8 | 757.3 | 714.4 | 692.4 | 684.1 | 690.5 |
| 35° | 825.6 | 816.4 | 810.5 | 825.6 | 873.0 | 895.4 | 842.2 | 792.0 | 775.4 | 774.4 | 790.5 |
| 37.5° | 927.6 | 922.3 | 910.1 | 925.7 | 968.1 | 978.4 | 919.8 | 877.9 | 866.1 | 872.5 | 888.6 |
| 40° | 1008.6 | 998.9 | 982.8 | 997.4 | 1053.0 | 1063.3 | 991.1 | 949.6 | 945.2 | 959.3 | 981.3 |
| 42.5° | 1072.6 | 1058.9 | 1037.4 | 1040.8 | 1085.7 | 1093.0 | 1029.1 | 997.9 | 1000.8 | 1018.4 | 1043.3 |
| 45° | 1101.3 | 1090.6 | 1071.6 | 1070.1 | 1098.4 | 1098.9 | 1048.6 | 1032.5 | 1040.3 | 1054.0 | 1073.5 |
| 47.5° | 1113.5 | 1108.7 | 1097.9 | 1095.5 | 1111.6 | 1107.7 | 1076.5 | 1069.6 | 1076.9 | 1080.9 | 1092.1 |
| 50° | 1143.8 | 1143.8 | 1145.3 | 1147.2 | 1163.8 | 1159.9 | 1137.9 | 1130.1 | 1120.9 | 1107.2 | 1110.6 |
| 52.5° | 1228.7 | 1232.1 | 1246.3 | 1261.9 | 1292.1 | 1304.8 | 1269.2 | 1223.8 | 1179.4 | 1149.7 | 1149.7 |
| 55° | 1381.9 | 1385.3 | 1401.9 | 1428.3 | 1483.9 | 1514.2 | 1431.2 | 1331.2 | 1270.2 | 1229.7 | 1235.0 |
| 57.5° | 1466.3 | 1470.2 | 1504.4 | 1575.7 | 1683.5 | 1734.7 | 1556.6 | 1408.3 | 1322.9 | 1276.5 | 1280.4 |
| 58° | 1461.0 | 1463.4 | 1502.0 | 1585.4 | 1705.5 | 1760.6 | 1565.4 | 1405.8 | 1316.1 | 1268.7 | 1273.6 |
| 60° | 1298.0 | 1294.6 | 1356.1 | 1475.1 | 1644.5 | 1720.6 | 1478.1 | 1283.4 | 1178.9 | 1130.6 | 1133.1 |
| 62.5° | 848.6 | 850.5 | 903.7 | 1028.1 | 1159.9 | 1231.6 | 1032.5 | 887.6 | 803.7 | 774.4 | 767.1 |
| 65° | 354.3 | 347.9 | 380.6 | 449.9 | 529.0 | 569.0 | 488.9 | 413.8 | 362.1 | 342.6 | 347.9 |
| 67.5° | 91.3 | 88.8 | 90.8 | 113.7 | 139.1 | 164.4 | 138.1 | 105.4 | 91.7 | 92.7 | 92.7 |
| 70° | 51.7 | 48.8 | 39.5 | 36.6 | 35.6 | 35.6 | 35.6 | 35.6 | 41.0 | 48.3 | 49.8 |
| 72.5° | 39.0 | 36.6 | 28.8 | 24.9 | 22.0 | 20.5 | 21.5 | 24.9 | 29.8 | 36.1 | 37.1 |
| 75° | 19.5 | 19.5 | 17.6 | 16.6 | 14.6 | 13.7 | 14.2 | 15.6 | 18.1 | 20.5 | 20.0 |
| 77.5° | 3.9 | 4.4 | 4.9 | 5.9 | 4.9 | 4.9 | 4.9 | 5.9 | 5.9 | 6.3 | 5.9 |
| 80° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 82.5° | 0.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)